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## NOTICE OF ALLOWANCE AND FEE(S) DUE

43076

7590

07/23/2009

MARK D. SARALINO (GENERAL) RENNER, OTTO, BOISSELLE & SKLAR, LLP 1621 EUCLID AVENUE, NINETEENTH FLOOR CLEVELAND, OH 44115-2191 EXAMINER

VIJAYAKUMAR, KALLAMBELLA M

ART UNIT PAPER NUMBER

1793

DATE MAILED: 07/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501.747	12/14/2004	Jochen Dieter Mannhart	ABACP0110US	3101

TITLE OF INVENTION: SUPERCONDUCTOR WITH OPTIMIZED MICROSTRUCTURE AND METHOD FOR MAKING SUCH A

SUPERCONDUCTOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	10/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence including and below or directed oth	g the Patent, advance of erwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees wi pondence address;	ll be ma and/or (	ailed to the current b) indicating a sepa	correspondence addre arate "FEE ADDRESS	ss as
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CLEVELAND,	OH 44115-2191						(Depositor's 1	name)
							(Sign	ature)
							(	(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORN	NEY DOCKET NO.	CONFIRMATION NO	).
10/501,747 TITLE OF INVENTI SUPERCONDUCTOR	12/14/2004 ON: SUPERCONDUC	TOR WITH OPTIMI	Jochen Dieter Mannhart IZED MICROSTRUCTU	RE AND METI		ACP0110US FOR MAKING S	3101 SUCH A	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$755	\$300	\$0		\$1055	10/23/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
VIJAYAKUMAR, K	ALLAMBELLA M	1793	505-430000	•				
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.</li> <li>ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O</li> </ol>			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	ess an assignee is identi h in 37 CFR 3.11. Comp GNEE	fied below, no assignee letion of this form is NO	data will appear on the part of the part o	ntent. If an assigne assignment. and STATE OR Co	OUNTR	Y)		
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Cor	poration	or other private gro	oup entity 🖵 Govern	ment
	are submitted: To small entity discount p # of Copies	ermitted)	b. Payment of Fee(s): ( <b>Plea</b> A check is enclosed.  Payment by credit car  The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attach	ned.	·	m).
	s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long					
NOTE: The Issue Fee and interest as shown by the i	d Publication Fee (if requeecords of the United Sta	iired) will not be accepte tes Patent and Trademark	d from anyone other than tl Office.	ne applicant; a regis	tered att	orney or agent; or th	ie assignee or other pai	ty in
Authorized Signature				Date				
Typed or printed name	e			Registration No	o			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv the Chief Information Office COMPLETED FORMS TO	etain a benefit by th imated to take 12 m idual case. Any cor r, U.S. Patent and T D THIS ADDRESS.	e public inutes to nments Tradema SEND	which is to file (and complete, includir on the amount of ti- rk Office, U.S. Dep TO: Commissioner	by the USPTO to proug gathering, preparing me you require to comartment of Commerce, for Patents, P.O. Box	cess) , and plete P.O. 1450,

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10/501,747	12/14/2004	Jochen Dieter Mannhart	ABACP0110US	3101
43076	7590 07/23/2009	EXAMINER		
MARK D. SAR	ALINO (GENERAL)	VIJAYAKUMAR, K	ALLAMBELLA M	
	, BOISSÈLLE & SKLA	ART UNIT	PAPER NUMBER	
1621 EUCLID AVENUE, NINETEENTH FLOOR CLEVELAND, OH 44115-2191			1793 DATE MAIL ED: 07/23/200	9

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 444 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 444 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/501,747	   MANNHART, JOCHEN DIETER					
Notice of Allowability	Examiner	Art Unit					
	KALLAMBELLA VIJAYAKUMAR	1793					
	RALLAWIDELLA VIJATAROWAR	1793					
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication (GHTS. This application is subject to	plication. If not included will be mailed in due course. <b>THIS</b>					
1. This communication is responsive to <u>Amendment of 05/05/</u>	<u>/2009</u> .						
2. The allowed claim(s) is/are <u>41-42, 45-48 and 50-60</u> .							
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:							
<ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> </ol>							
3. ☐ Copies of the certified copies of the priority documents have	· · · —						
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	national stage application from the					
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached					
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	s Amendment / Comment or in the C	Office action of					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the							
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	Patent Application					
<ol> <li>Induce of References Cited (PTO-692)</li> <li>Induce of References Cited (PTO-</li></ol>	6. ☐ Interview Summary	• •					
•	Paper No./Mail Dat	e					
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🗌 Examiner's Amendr	nenvComment					
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		ent of Reasons for Allowance					
	9. Other						
	/Stanley Silverman/ Supervisory Patent Exa	aminer, Art Unit 1793					

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Art Unit: 1793

### **DETAILED ACTION**

• A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/05/2009 has been entered.

• Claim 41 was amended. Claims 41-42, 45-48 and 50-60 as amended are currently pending with the application. Claim-60 was previously allowed.

### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

Claims 41-42, 45-48 and 50-60 are allowed.

The amendment recites the positive step of treating the micro-structured substrate or the buffer layer forming the groves that overcomes the prior art by Truchan et al (US 6,455,166). An updated detailed search did not result in any new prior art that either teaches or fairly suggest a method of making the superconductor by a combination of the method steps, components processed therein and having the specific microstructure.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/501,747

Art Unit: 1793

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KALLAMBELLA VIJAYAKUMAR whose telephone number is

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(571)272-1324. The examiner can normally be reached on M-F 07-3.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 5712721358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KMV/ July 15, 2009.

/Stanley Silverman/ Supervisory Patent Examiner, Art Unit 1793